CLAIMS:

What is claimed is:

- 1 1. A method, in a requested file system server, for
- 2 servicing a request, comprising:
- 3 receiving a request for a referencing object from a
- 4 client, wherein the referencing object refers to a
- 5 referenced file system;
- 6 looking up a location of the referenced file system
- 7 in a separate data structure; and
- 8 returning a redirection message indicating the
- 9 location of the referenced file system to the client.
- 1 2. The method of claim 1, wherein the redirection
- 2 message includes an address of a referenced file system
- 3 server.
- 1 3. The method of claim 2, wherein the redirection
- 2 message further includes a path.
- 1 4. The method of claim 2, wherein the referencing
- 2 object has a file system identifier.
- 1 5. The method of claim 4, further comprising:
- 2 encoding the file system identifier,
- 3 wherein the redirection message further includes the
- 4 encoded file system identifier.

- 1 6. The method of claim 5, wherein the referencing
- 2 object is a top level object for a uniform namespace
- 3 including all file systems on participating file system
- 4 servers.
- 1 7. The method of claim 2, wherein the referenced file
- 2 system server is the requested file system server.
- 1 8. The method of claim 1, wherein the separate data
- 2 structure comprises a file system location database.
- 1 9. The method of claim 1, further comprising:
- 2 receiving a redirected request for a file system
- 3 object;
- 4 identifying an encoded file system identifier in the
- 5 redirected request;
- 6 decoding the encoded file system identifier to form
- 7 a file system identifier corresponding to a requested
- 8 file system;
- 9 looking up a path for the requested file system in a
- 10 file system identifier data structure; and
- retrieving the root of the requested file system
- 12 using the path for the requested file system.
- 1 10. The method of claim 9, wherein the file system
- 2 identifier data structure comprises a file system
- 3 identifier table.

- 1 11. The method of claim 9, wherein the separate data
- 2 structure and the file system identifier data structure
- 3 are stored in a file system location database.
- 1 12. The method of claim 1, wherein the referencing
- 2 object is a top level object for a uniform namespace
- 3 including all file systems on participating file system
- 4 servers.
- 1 13. A method, in a requested file system server, for
- 2 servicing a request, comprising:
- 3 receiving a request for a file system object,
- 4 wherein the request includes an encoded file system
- 5 identifier;
- 6 decoding the encoded file system identifier to form
- 7 a file system identifier corresponding to a requested
- 8 file system;
- 9 looking up a path for the requested file system in a
- 10 file system identifier data structure; and
- 11 retrieving the root of the requested file system
- 12 using the path for the requested file system.
- 1 14. The method of claim 13, wherein the file system
- 2 identifier data structure is stored in a table.
- 1 15. The method of claim 13, wherein the file system
- 2 identifier data structure is stored in a file system
- 3 location database.

- 1 16. An apparatus, in a requested file system server, for
- 2 servicing a request, comprising:
- 3 receipt means for receiving a request for a
- 4 referencing object from a client, wherein the referencing
- 5 object refers to a referenced file system;
- 6 location means for looking up a location of the
- 7 referenced file system in a separate data structure; and
- 8 return means for returning a redirection message
- 9 indicating the location of the referenced file system to
- 10 the client.
 - l 17. The apparatus of claim 16, wherein the redirection
 - 2 message includes an address of a referenced file system
 - 3 server.
- 1 18. The apparatus of claim 17, wherein the redirection
- 2 message further includes a path.
- 1 19. The apparatus of claim 17, wherein the referencing
- 2 object has a file system identifier.
- 1 20. The apparatus of claim 19, further comprising:
- 2 encoding means for encoding the file system
- 3 identifier,
- 4 wherein the redirection message further includes the
- 5 encoded file system identifier.

- 1 21. The apparatus of claim 20, wherein the referencing
- 2 object is a top level object for a uniform namespace
- 3 including all file systems on participating file system
- 4 servers.
- 1 22. The apparatus of claim 17, wherein the referenced
- 2 file system server is the requested file system server.
- 1 23. The apparatus of claim 16, wherein the separate data
- 2 structure comprises a file system location database.
- 1 24. The apparatus of claim 16, further comprising:
- 2 means for receiving a redirected request for a file
- 3 system object;
- 4 means for identifying an encoded file system
- 5 identifier in the redirected request;
- 6 means for decoding the encoded file system
- 7 identifier to form a file system identifier corresponding
- 8 to a requested file system;
- 9 means for looking up a path for the requested file
- 10 system in a file system identifier data structure; and
- 11 means for retrieving the root of the requested file
- 12 system using the path for the requested file system.
- 1 25. The apparatus of claim 24, wherein the file system
- 2 identifier data structure comprises a file system
- 3 identifier table.

- 1 26. The apparatus of claim 24, wherein the separate data
- 2 structure and the file system identifier data structure
- 3 are stored in a file system location database.
- 1 27. The apparatus of claim 16, wherein the referencing
- 2 object is a top level object for a uniform namespace
- 3 including all file systems on participating file system
- 4 servers.
- 1 28. An apparatus, in a requested file system server, for
- 2 servicing a request, comprising:
- 3 receipt means for receiving a request for a file
- 4 system object, wherein the request includes an encoded
- 5 file system identifier;
- 6 decoding means for decoding the encoded file system
- 7 identifier to form a file system identifier corresponding
- 8 to a requested file system;
- 9 path means for looking up a path for the requested
- 10 file system in a file system identifier data structure;
- ll and
- 12 retrieval means for retrieving the root of the
- 13 requested file system using the path for the requested
- 14 file system.
- 1 29. The apparatus of claim 28, wherein the file system
- 2 identifier data structure is stored in a table.

- 1 30. The apparatus of claim 28, wherein the file system
- 2 identifier data structure is stored in a file system
- 3 location database.
- 1 31. A computer program product, in a computer readable
- 2 medium, for servicing a request, comprising:
- 3 instructions for receiving a request for a
- 4 referencing object from a client, wherein the referencing
- 5 object refers to a referenced file system;
- 6 instructions for looking up a location of the
- 7 referenced file system in a separate data structure; and
- 8 instructions for returning a redirection message
- 9 indicating the location of the referenced file system to
- 10 the client.
- 1 32. A computer program product, in a computer readable
- 2 medium, for servicing a request, comprising:
- 3 instructions for receiving a request for a file
- 4 system object, wherein the request includes an encoded
- 5 file system identifier;
- 6 instructions for decoding the encoded file system
- 7 identifier to form a file system identifier corresponding
- 8 to a requested file system;
- 9 instructions for looking up a path for the requested
- 10 file system in a file system identifier data structure;
- 11 and

- 12 instructions for retrieving the root of the
- 13 requested file system using the path for the requested
- 14 file system.